



General Office: 772 Horizon Drive, Grand Junction, CO 81501
Corporate Office: 212 West Michigan Avenue, Jackson, MI 49201
Registered Office: 141 East First South, Salt Lake City, UT 84111

East file
(303) 245-5460
(517) 787-8415
(801) 534-0734

May 4, 1979

Mr. Ron Daniels
State of Utah, Division of Oil,
Gas and Mining
DEPARTMENT OF NATURAL RESOURCES
1588 West North Temple
Salt Lake City, Utah 84116

Dear Mr. Daniels:

Enclosed is Plateau Resource Limited's Notice of Intention to Commence Mining Operations (MR1), Mining and Reclamation Plan (MR2) and Commitment to Rule M-10 (MR8) for the proposed Frank M mine operation in Garfield County, Utah. Also enclosed is a map showing the area to be effected by the proposed mine operation.

Please advise me if you need any additional information.

Sincerely,

Pam Newman

Pam Newman
Administrative Assistant

PN

enclosures

cc: Mr. R. B. Sewell
Mr. E. F. Jacobson



NO. ACT/017/017

Date 5/4/79

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company PLATEAU RESOURCES LIMITED
Corporation (X) Partnership () Individual ()
2. Address 772 Horizon Drive Grand Junction, Colorado 81501
Permanent Temporary
3. Name and title of person representing company E. F. Jacobson, Mine Manager
4. Address 772 Horizon Drive Office Phone (303) 245-5460
5. Location of Operation SW $\frac{1}{4}$.NE $\frac{1}{4}$ Sec. 1, 2 & 3 T. 35S R. 11E
6. Name of Mine Frank M
7. Mineral to be mined: Mining Method:
- | | | |
|---------------------------|--------------------------|--------------------------------------|
| () Coal | () Flagstone | |
| () Copper | () Gravel | <u>Horizontal Drifts</u> |
| () Manganese | () Shale | |
| () Iron Ore | (X) Uranium | <u>laterals to stope development</u> |
| () Phosphate | () Gilsonite | |
| () Potash | () Bituminous Sandstone | <u>pillar removal</u> |
| () Fluorspar | () Tungsten | |
| () Other (specify) _____ | | |
8. Have you or any person, partnership or corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
() Yes (X) No
If yes, list all approval numbers now under surety:

9. Owner/Owners of record of the surface area within the land to be affected:

Mr. Orawell Williams (Holder of State Grazing Lease) Address Teasdale, Utah 84773

State of Utah (man)

Address _____

BLM (man)

Address _____

Address _____

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10. Owner/Owners of record of minerals to be mined:

Plateau Resources Limited Address 772 Horizon Drive

11. Owner/Owners of record of all other minerals within any part of the land affected:

Mr. Claude B. Hamil Address 2306 First City National
Bank Building, Houston, TX 77007

11a. Have the above owners been notified in writing? (copies of letters attached)
☒ Yes ☐ No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Mining Claims and State Lease #32305

13. Approximate acreage to be disturbed:

A) Mining Operation Area - 47.15 acres
(include operations, storage, & disposal area)
B) Access Road or Haulageway - 18.36 acres
C) Drainage System - -0- acres

TOTAL ACRES: 65.51

14. Give the names and post office addresses of every principal Executive, Officer, Partner, (or person performing a similar function) of Applicant:

Name: Title: Address:

a. R. C. Youngdahl President 212 W. Michigan Ave., Jackson, MI
b. R. L. Heiks Vice President 772 Horizon Drive
c. B. O. Fisher Vice President Grand Junction, CO
d. R. B. Sewell Mgr. of Operations

15. Has Applicant, any subsidiary of affiliate or any person, partnership, association, trust, or corporation controlled by or under common control with Applicant, or any person required to be identified by Item 14, ever had approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? ☐ Yes ☒ No

If yes, explain:

STATE OF Colorado

COUNTY OF Mesa

I, R. B. Sewell, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.

Signed: R. B. Sewell

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 4th day of May, 19 79.

Notary Public: Lynn Newman

My Commission Expires: 4/1/81

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as
follows:

"Information relating to the location, size, or nature
of the deposit and marked confidential by the operator,
shall be protected as confidential information by the
Board and the Division and not be a matter of public
record in the absence of a written release from the
operator, or until the mining operation has been
terminated as provided in subsection (2) of section
40-8-21."

Is confidential information contained herein?

YES _____ (Initial)

NO RBS (Initial)

Sections desired to be maintained as confidential information -

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MR 2, provided
they contain the same information)

1. Name of Applicant or Company PLATEAU RESOURCES LIMITED
2. Proposed type of operation Underground Uranium Mining
3. (a) Prior Land Use(s) grazing, mineral exploration, mining
(b) Current Land Use(s) grazing, mineral exploration, mining
(c) Possible or Prospective Future Land Use(s) grazing, mineral exploration, mining
4. What Vegetation exists on the land proposed to be affected _____
see Attachment 2
(a) Types and Estimated Percent cover or density: _____
see Attachment 2
5. What is the pH range of soil before mining? 8.9 to 9.3 pH
Name of Person or Agency and method of determining pH _____
see Attachment 2
6. Site elevation above sea level Approximately 5000 feet
7. In case of coal, oil shale, and bituminous sandstone:
Principal seam(s) and thickness(es) N/A
8. Estimated duration of mining operations 15 years
9. Has overburden, waste or rejected materials been classified as acid or alkali producing? () Yes (X) No
Does the above material being moved have any other characteristics affecting revegetation? _____
10. Will any underground workings or aquifers be encountered? () Yes (X) No
Describe _____
Is there an active discharge of water from abandoned deep mines on or crossing the land affected? () Yes (X) No If yes, describe the quality of water being discharged. _____

11. Describe specifically a detailed procedure for: see Attachment I
- (a) The mining sequence
 - (b) The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
 - (c) The procedure for site preparation including removing trees and brush.
 - (d) The method for removing and stockpiling topsoil or disturbed materials.
 - (e) The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic materials.
 - (f) A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe: see Attachment I

- (a) Typical cross-section of regrading.
- (b) The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
- (c) What type of soil treatment will be utilized.
- (d) The method of drainage control for the final regraded area.
- (e) Maximum grading slope.

TESTING

1. Describe method for testing stability of reclamation fill material.
see Attachment 2

Describe method for the testing of soil that is intended to support vegetation

see Attachment 2

2. Describe any soil treatment employed as an aid to revegetation
see Attachment 2

3. Describe surface preparation of areas intended to support vegetation:
see Attachment 2

REVEGETATION

1. Revegetation to be completed by:
- | | |
|--------------------------------|--|
| (X) Operator | () Hydroseeding |
| () Soil Conservation District | () Aerial Seeding |
| () Private Contractor | () Conventional or Rangeland Drilling |
| () Other (specify) _____ | () Broadcast and Drag |
| | () Other _____ |

2. Will Mulch be used? () Yes () No see Attachment 2

Type: _____ Rate/Acre _____ lbs.

3. Revegetation Plan and Schedule - see Attachment 2

Species	Rate/ Acre	Planting Location	Facing N-S-E-W	Season to be replanted

4. Will affected area be subject to livestock or wildlife grazing?

() Yes () No Will vegetation protection be needed? _____

see Attachment 2

5. Will irrigation be used: () Yes () No Type see Attachment 2

6. Describe maintenance procedures for revegetation if needed, until surety release is granted. see Attachment 2

STATE OF Colorado

COUNTY OF Mesa

I, R. B. Sewell, having been duly sworn
depose and attest that all of the representations contained in the foregoing
application are true to the best of my knowledge; that I am authorized to
complete and file this application on behalf of the Applicant and this
application has been executed as required by law.

Signed: RBS

Taken, subscribed and sworn to before me the undersigned authority
in my said county, this 4th day of May, 19 79

Notary Public: Pam Newman

My Commission Expires: 4/1/81

PLEASE NOTE:

Section 40-8-13(2) of the Mined Land Reclamation Act provides as
follows:

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of the deposit and marked confidential by the operator,
shall be protected as confidential information by the
Board and the Division and not be a matter of public
record in the absence of a written release from the
operator, or until the mining operation has been
terminated as provided in subsection (2) of section
40-8-21."

Is confidential information contained herein?

YES _____ (Initial)

NO RBS (Initial)

Sections desired to be maintained as confidential information -

Mine: Frank M. Mine
File No. ACT/017/017

Submitted by:
Applicant _____

Representative _____

Address _____

Division of Oil, Gas, and Mining
1588 West North Temple
SLC, UT. 84116

Re: Commitment to Rule M-10

Gentlemen:

I hereby commit the applicant to comply with Rule M-10, "Reclamation Standards: in its entirety, as adopted by the Board of Oil, Gas, and Mining on March 22n 1978.

The applicant will achieve the reclamation standards for the following categories as outlined from Rule M-10 on all areas of the land affected by this mine, unless a variance is granted in writing by the Division.

<u>Rule</u>	<u>Category of Commitment</u>
M-10(1)	Land Use
M-10(2)	Public Safety & Welfare
M-10(3)	Impoundments
M-10(4)	Slopes
M-10(5)	Highwalls
M-10(6)	Toxic Materials
M-10(7)	Roads and Pads
M-10(8)	Drainages
M-10(9)	Structures and Equipment
M-10(10)	Shafts and Portals
M-10(11)	Sediment Control
M-10(12)	Revegetation
M-10(13)	Dams
M-10(14)	Soils

I believe a variance is justified on a site-specific basis for the following subsections of Rule M-10 for reclamation on this mine and have enclosed as an attachment to this letter a narrative statement setting forth a description of the extent of the variance request and factual reasons for said variance request.

<u>Rule</u>	<u>Category of Variance Request (Narrative Attached)</u>
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

STATE OF Colorado

COUNTY OF Mesa

I, R.B. Sewell, having been duly sworn depose and attest that all of the representations contained in the foregoing application are true to the best of my knowledge; that I am authorized to complete and file this application on behalf of the Applicant and this application has been executed as required by law.

Signed: R.B. Sewell

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 4th day of May, 19 79.

Notary Public: Pam Newman

My Commission Expires: 4/1/81

ATTACHMENT 1

Mine development will commence from the surface and a decline driven to below the ore horizon at approximately 15°. Double entry haulage drifts will be developed from the bottom of the incline to the extremities of the ore bodies. Laterals will be driven at an angle from the haulage through the ore horizon and stoping carried out on a room and pillar retreat procedure. Mining and maintenance methods will be carried out in a safe and orderly manner. The mine is non-alkali or acid producing. Waste rock will be stored in a natural canyon like depression that relates to the 500 year[?] flood requirement under the EPA hazardous waste regulations.

Some modification to the present access roads will be necessary to reduce the grade to approximately 6% to 8%.

Site preparation will be completed by grading existing waste material for level entry. No removal of trees and very little brush is necessary.

Any upper horizon material encountered will be stockpiled in an independent area for final reclamation.

Portal and ventilation shaft(s) will be sealed to prevent unauthorized or accidental entry at the close of the operation.

Waste dumps will be contoured for natural draining configuration. Extraneous debris, unusable building, and scrap metal and wood will be removed from the location or buried.

All disturbed surface will be regraded, stockpiled soil added and seeded. Access roads will be graded out to conform to natural surroundings and reseeded.

-continued-

ATTACHMENT 1
Page 2

Typical cross-section of regrading will be the natural ?
angle of repose. The mined material is of the same formation
as the upper horizon material.

The type of soil treatment will be determined after ?
study with test plots.

Drainage control for the regraded area will not
be necessary as the drainage is natural and will not be affected.

The maximum grading slope will be to the natural
angle of repose, approximately zero to sixty degrees.

Note: Attachment 1a is a drawing of the typical cross section.

ATTACHMENT 2

The Bureau of Land Management controls the surface use of the area in the vicinity of the proposed mine and has designated it as a multiple use resource area. Primary uses of the area are for grazing and mineral exploration and mining. Wildlife use of the area is very low because of the aridity of the region. As will be noted on maps of the general area, there has been extensive uranium exploration and mining activities that have cocurred since the 1940's. Within a two mile radius of the proposed mine there are many miles of drill roads and thousands of drill holes. Most of the drill roads and pads in this vicinity, including ones constructed many years ago, have been reclaimed by Plateau. Proposed land uses for the future are grazing, wildlife habitat, and possibly further mineral exploration and development.

The vegetation indigenous to this area classifies it as being in the upper division of the Lower Sonoran Life zone. Blackbrush (Coleogyne ramosissima) and ephedra (Ephedra torreyanae) are the dominant shrubs. Singleleaf ash (Fraxina anomala) and cliffrose (Cowania mexicana) are predominate near intermittent drainages. Winterfat (Ceratoides lanata), fourwing saltbush (Atriplex canescens), snakeweed (Gutierrezia spp.), and sagebrush (Artemisia spp.) are common on the site. Utah juniper (Juniperus osteosperma) dominates in some areas including the canyon in which waste material will be dumped. Herbaceous perennials include Eriogonum, spp. and Oxytropis spp. The site elevation is approximately five thousand feet above sea level. Average annual precipitation is 7 to 9 inches. Summer temperatures exceed 100° F., and winter temperatures are often below freezing.

-continued-

Soil pH ranges from 8.9 to 9.3 as determined by Mr. Jay Davis, Environmental Technician who followed procedures outlined in the Handbook of Analytical Procedures, Lucius Pitkin, Inc. The material to be mined is from the same formation as the existing surface material so their pH's should be similar. Seams of coal, oil shale, or bituminous sandstone should not be encountered.

All waste fill material will be contained within the side walls of the canyon so stability tests will not be required. Test plots will be initiated as soon as enough fill material has been placed in the canyon to provide a surface representative of the final composition and grade. Samples of the fill material will be tested prior to test plot planting to determine soil ammendments that may be necessary. Soil treatments and surface preparation methods will be determined by the use of test plots and soil analyses. Preliminary indications from arid land research data lead to the conclusion that an organic mulch and fertilizer may be needed, and some means of water collection will probably be necessary. The test plots will study which native species for which seed is commercially available and will survive and yield the highest degree of protection from erosion.

Overburden removed from the portal will be stockpiled nearby and will be stabilized by mulching and revegetating it. When the mine is abandoned, the stockpiled overburden will be placed in such a way as to approximate natural contours and minimize the visual impact. Revegetated areas will be planted in the fall by broadcasting or drilling by Plateau personnel or contractors under the direct supervision of the reclamation staff.

No plans to irrigate either the replaced topsoil or the mine waste dump have been promulgated at this time. Due

ATTACHMENT 2
Page 3

to the scarcity of surface water and the extremely low grazing potential of this area, no fences or other vegetation protection will be needed.

The revegetated site will be revisited on a regular basis to determine what, if any, additional management is needed.